Minutes of the Transportation Technical Working Group Meeting/Teleconference 3/21/02 from 9 AM – Noon at ITD in Boise, ID

Present at ITD:
Randy Rowell, Chair (ITD)
Byron Keely (LHTAC)
Gail Ewart (Maxim Technologies)
Nathan Bentley (ITRMC)
Tracy Fuller (USGS)
Roger North (ITD)
Mori Byington (Bannock Planning Organization)

Present Via Teleconference:
Dave Christianson, Co-Chair (Kootenai Co.)
James Mangan (Worley HD Commisioner)
Tanna Dole (Worley HD)

Not Present:
Darrel Van Buren (USFS)

Byron K. stepped down as Vice-Chair; Dave C. was nominated and elected Co-Chair.

Consensus was reached on the following issues concerning Idaho's Transportation Framework Base Segmentation Layer:

- FGDC Compliant Metadata required for all Transportation Framework Data.
- Scope--initially include all roads and trails open for use by the public and eventually add all transportation modes—rail, air, water, pipelines and transmission lines.
- Functionality—should be application independent and include the four basic functions (Locate, Position, Place and Transform) identified by NCHRP 20-27 "Generic Data Model for Linear Referencing".
- Any roadway data contributed to the Framework Base Segmentation layer must use some kind of linear referencing method (e.g., MACS, Street Name and Address Range, Roadway ID and Distance Measure, etc.).
- Geometry Data (Coordinates):
    - Minimum Scale = 1:24K
    - Minimum Accuracy = National Map Accuracy Standards for 1:24K scale
    - Required for new data
    - Recommended but not required for existing data
    - Required for existing data within two years after adoption of Base Segmentation Standards

Action Items for the next meeting:

- Randy R.: rewrite and flesh out "Scope"
- Dave C.: rewrite and flesh out "Functionality"
- ALL: critically examine proposed standards listed below; where necessary, develop alternatives for discussion at next meeting.

Agenda Items for next Meeting:

Proposed Standards

- ID Standard (data structure)
  - Six-Digit alpha-numeric ID
  - Begin spatial reference point
  - End spatial reference point
  - Begin temporal reference point
  - End temporal reference point

- Required Tables
  - Base Segment (Control Table)
  - Jurisdiction
  - County Limits
  - Point Descriptions (Begin and End points and Intersections)
  - Roadway Name and Address Range (compliant with NENA standards)
  - Functional Class

- Base Segmentation Standards:
  - New Segments begin at MP 100.000 to accommodate future growth
  - Roadways will be segmented logically based on the physical spatial and temporal characteristics of the roadway and NOT on any business attribute
  - Distance measures (e.g., mile posting) will run South to North and West to East
  - Minimum recorded accuracy for measured distance = 0.01 miles/52.8 feet/16 meters)
  - Maximum recorded resolution for measured distance = 0.001 miles/5.28 feet/1.6 meters)
  - Temporal Resolution = one day (MM/DD/CCYY)

- Base Segmentation Layer Maintenance
  - Who?
  - How?
  - When (how often)?

    - Procedures for incorporating improved accuracy of Geometry and Distance Measure data

- Business Attribute Tables (optional)
    - Surface Type
    - Surface Width
    - Right Of Way
    - Access Control
    - Usage